MR Form 3 (Revised 1984)

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JAN22 1986

ANNUAL OPERATIONS AND PROGRESS REPORT

DIVISION OF OIL

From Month/Year January, 1985 to Month/Year December, 1985

(To be submitted for <u>each</u> mining operation at the end of <u>each</u> calendar year to the Division at this <u>address</u>:)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
(801) 538-5340

OPERATOR: _	St. George	Mining Corporation	n MINE	NAME:	Apex Mine	
ADDRESS:	P.O. Box 18	92, St. George,	Utah 84	770		
	TR AND DATE OF	reimii.			24, 1984	
REPRESENTATI	VE: R. L.	Renaud, General	Manager			
SECTION(S):	6/7 & 1/2	TOWNSHIP(S): _	43		RANGE(S):	178 18 West
MINERAL(S) M	INED: Galliu	m/Germanium				
STATE AND/OF	R FEDERAL MINE	ERAL LEASE NUMBERS	5: <u>N</u>	lone		
SPECIAL USE	PERMITS AND/	OR RIGHTS-OF-WAY:	N	lone		
					018	

Section 40-8-15 and Rule M-8 of the Utah Mined Land Reclamation Act, requires each operator to include with this report an <u>up-dated map and plan</u> prepared in accordance with Rule M-3, as outlined in the requirements for annual report maps in Appendix I, providing a detailed status of all mining and reclamation activities which have occurred during the past year.

The report should include:

MINING:

(a) Tabulation of acreage disturbed (by pits, roads, facilities, etc.) during the report period with illustration on a current map.

Disturbance	Acreage
Pit	Nil
Roads	Nil
Facilities	Nil
Waste Dumps	Nil
Other	Nil

(b) Tabulation of acreage affected to date (by years).

Date by Year	Acreage (Total
1975	Nil
1976	Nil
1977	Nil
1978	Nil
1979	Nil
1980	Nil
1981	Nil
1982	Nil
1983	Nil
1984	0.4

(c) Tabulation of all topsoil (new) stockpile volumes (see chart below) and date of stockpiling.

SOIL TABULATION CHART

		A	\rea	
Area Affected (in mining sequence) (If more space is needed, please attach.)	1	2	3	etc.
Acreage of Area	N-	1		
Depth of Topsoil Removal (inches)	Ni	1		
Depth of Topsoil Replacement (inches)*	Ni	1		
Estimate of Topsoil Volume Salvaged (yd ³ or ac ft)	Ni	1		
Volume Actually Salvaged (yd ³ or ac ft)	Ni	1		
Volume Required for Reclamation (yd ³ or ac ft)	Ni	1		
Surplus or Deficit Volume (yd ³ or ac ft)	N/	'A		
Storage Status (short- or long-term)	N/	'A		

Upper dump meterial was recovered, screened and trucked to the plant. This work was completed in May, 1985.

Soil	Tabulation	Chart ((continued)
JOIL	IGDATGETOIL	Cilatt	(COLICELIACE)

Area Affected (in mining	n sequence)	Area 1 2 3 etc
TEG AFFECTED (IF MINISTER)		
Storage Location		N/A
Area Where Soil Has Been	n Used (if not stored)	N/A
Running Total (all stoc	kpiles) (ya ³ or ac ft)	Nil
Short-term		Nil
Long-term		Nil
*Of previously stripped	area recently reclaimed.	,
(a) Tabulation of a placement and illustrat	ll (newly removed) out-of-p ion on a map.	it spoil volumes, date of
Area	Date	Acreage
		경기일이 많아보다 하는데 아래된 다른 얼마를 하는데 모든데,
Nil		
Nil		
Nil		
	uantity of commodity mined.	
	uantity of commodity mined. <u>Commodity</u>	Tonnage
(e) Tabulation of q (Mined) Gallium/Germ	Commodity	
(e) Tabulation of q (Mined) Gallium/Germ (Milled) (f) Description of illustration on a map,	Commodity manium Ore any new construction during including, but not limited	Tonnage 1120 Tons g the report period with
(e) Tabulation of quality (Mined) Gallium/Germ (Milled) (f) Description of illustration on a map, 1. Buildings A crushing/screening pl	Commodity manium Ore any new construction during	Tonnage 1120 Tons The report period with to: gravel hopper were erected

3.	Diversion ditches, collector ditches, interceptor ditches, etc. Nil
	Culverts. Nil
5.	Sediment ponds, containment ponds. Nil
6.	Monitoring sites (vegetative, air quality, surface subsidence, surface water or ground water, etc.). Nil
7.	Topsoil stockpiles.
for mitigat:	cription of any environmental problem areas with a proposed plan ion and illustration on a map, including, but not limited to: Pit stability problems. Nil
2.	Subsidence. Nil

4. Slumping, sliding or erosion. Nil 5. Revegetation problem areas. Nil 6. Existence and location of unsuitable (toxic) overburden. Nil ECLAMATION: (a) Tabulation of the acreage reclaimed during the report period with llustration on a map, distinguishing between: 1. Backfilled, graded and contoured areas. Area Acreage Nil 2. Topsoiled areas. Area Acreage Nil	3.	Accidental water discharge, dam failure, etc. Nil
6. Existence and location of unsuitable (toxic) overburden. Nil BECLAMATION: (a) Tabulation of the acreage reclaimed during the report period with llustration on a map, distinguishing between: 1. Backfilled, graded and contoured areas. Area Acreage Nil 2. Topsoiled areas. Area Acreage	4.	
ECLAMATION: (a) Tabulation of the acreage reclaimed during the report period with llustration on a map, distinguishing between: 1. Backfilled, graded and contoured areas. Area Acreage Nil 2. Topsoiled areas. Area Acreage	5.	전에 가장 전통 전쟁 전에 가장 이렇게 보면 되었다면 보면 보면 되었다면 되었다. 이 전에 가장 보고 있는데 그렇게 보고 있다면 보다면 되었다면 되었다면 되었다면 보다면 보다면 보다면 보다.
(a) Tabulation of the acreage reclaimed during the report period with llustration on a map, distinguishing between: 1. Backfilled, graded and contoured areas. Area Acreage Nil 2. Topsoiled areas. Area Acreage		Nil
llustration on a map, distinguishing between: 1. Backfilled, graded and contoured areas. Area Acreage Nil 2. Topsciled areas. Area Acreage	ECLAMATION:	
Area Acreage Nil 2. Topsoiled areas. Area Acreage		
2. Topsoiled areas. Area Acreage	1.	Backfilled, graded and contoured areas.
<u>Area</u> <u>Acreage</u>		1월 12 M. B.
<u>Area</u> <u>Acreage</u>		
<u>Area</u> <u>Acreage</u>		
	2.	Topsoiled areas.
Nil		
		<u>Area</u> <u>Acreage</u>

	3.	Seeded areas.	
		Area	Acreage
		Nil	
	4.	Reseeded areas (areas	previously seeded, then seeded again).
		Area	Acreage
		Nil	
date	Бу уе	Year 1975 1976	Acreage Nil Nil
		1977 1978 1979 1980 1981 1982	Nil Nil Nil Nil Nil Nil
		1983	Nil
		1984	Nil
(c) eriod,	Descrinclu	ription of the reclamatuding:	cion procedures used during the report
	1.	Average depth of tops	soil applied.
	2.	Type of seea (species	s) used for seeding during the report period
	2.		s) used for seeding during the report period

	3.	Date of seeding during the report period.
Spring		n/a
Fall		n/a
	4.	Seeding procedures usea.
(Hana	broadca	n/a
	5.	Rate of seed application.
		ere of Pure Live Seed (PLS) (if varied, please explain) n/a
	6.	Type and rate of fertilizer applied.
		Type and rate of mulch applied.
	8.	Rate of irrigation water applied, if any. Please describe any type of sprinkling, or water applied (water truck, etc.).
(Cover		Revegetation test plot information. ity, productivity, etc.)
-		n/a

10.	Soil analysis results. n/a
(d) Descr (This should	ription of results of previous revegetation efforts, including: be done as applicable.)
	Types (species) of seed that have germinated and are growing. n/a
2.	Types (species) of seed that are not growing successfully.
	Areas experiencing problems with weeds and weed types.
4.	Significant erosional problems. n/a
5.	Areas of unsuitable overburden on the surface as related to revegetation failure. n/a
6.	Procedures used or proposed to correct these problems.

	7.	Acreage and dates or revegetated areas.	f release	(upon inspection	by the State) of
Are	ea .	n/a	<u>Date</u>		Acreage
	8.	Results of soil ana.	lysis.		

period, replacem	inclument,	erization of the reclanding itemized costs a seeding, etc.) and for accilities removal, expenses and the recovery of the recov	for each cor each ty	pperation (i.e., g	rading, topsoil
			Ac	res	Cost/Acre
 Cont Tops Seed A. B. C. 	ouring Seedb Mulch Ferti	Replacement Ded Preparation			
BOND INF	FORMAT	ION:			
Α.	An u Divi char actu sect furt	apdated bong estimate sion's approval of the sign of t	he Mining Occurred, tion costs of the re	and Reclamation F including a detai as as outlined in t elease of revegeta	Plan (MRP) or if led itemization of the RECLAMATION ated areas from
		Amoun	t	Туре	Date Posted
Present	Bona	\$54,389.	R	eclamation Bond	August 2, 1984

Increased disturbance, i	if any:	
Increased Bond Amount (attached reclamation estimate). B. Bond release.		
Acres n/a	Bond Amount Released n/a	<u>Date</u>

ADDITIONAL INFORMATION:

Supply any additional information as requested by the Division related to:

- (a) Permit stipulations (status).(b) Other special conditions (status).

APPENDIX I

ANNUAL REPORT MAPS

- 1. Maps must be clear and legible contour maps or recent aerial photos. The scale should be 1 inch = 500 feet to adequately show topographic features.
- Map sheets should be of a reasonable size, not to exceed 48 inches on a sige.
- 3. Maps must have a title block with:
 - A. Map title.
 - B. Name and address of permittee.
 - C. Permit and amendment numbers.
 - D. Annual report period.
 - E. Scale, north arrow, contour interval, date of photography, etc.
- 4. All maps must show:
 - A. Legal subdivisions.
 - B. Permit area boundary clearly shown and labelled.
 - C. Amendment areas clearly shown and labelled.
 - D. Contour features.
- 5. The following features should all be clearly identified:
 - A. Topsoil stockpiles (numbered and with volumes).
 - B. Settling ponds and sediment control structures.
 - C. Haul roads.
 - D. Pits identified by location, name, number, etc.
 - E. Ramps (numbered).
 - F. Out-of-pit spoil dumps.
 - G. All waste disposal sites including, but not limited to:
 - 1. Lanafill sites.
 - 2. Carbonaceous waste dumps.
 - H. Diversion ditches.
 - I. Monitoring sites.
- 6. All areas to be affected by mining and reclamation in the coming year should be outlined and labelled.